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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/509,808	08/24/2000	Roland Fischer	F-6485	9821
7:	590 06/28/2006		EXAMINER	
Jordan & Hamburg			FERGUSON, LAWRENCE D	
122 East 42nd S New York, NY			ART UNIT PAPER NUMBER	
,			1774	
			DATE MAILED: 06/28/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

			V
	Application No.	Applicant(s)	
	09/509,808	FISCHER ET AL.	
Office Action Summary	Examiner	Art Unit	
	Lawrence D. Ferguson	1774	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be to see the self of the self o	N. imely filed n the mailing date of this communication ED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 11 A	A <i>pril 2006</i> .		
2a) This action is FINAL . 2b) ⊠ Thi	is action is non-final.		
3) Since this application is in condition for allowed	•		S
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	I53 O.G. 213.	
Disposition of Claims			
 4) ☐ Claim(s) 24-28,30 and 31 is/are pending in the 4a) Of the above claim(s) 32-46 is/are withdrates 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 24-28,30 and 31 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or 	wn from consideration.		
Application Papers		•	
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the option of the correct and the cor	cepted or b) objected to by the drawing(s) be held in abeyance. So ction is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* See the attached detailed Office action for a list	nts have been received. Its have been received in Applica prity documents have been receive au (PCT Rule 17.2(a)).	tion No /ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summar		
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date Patent Application (PTO-152)	

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DETAILED ACTION

Response to Amendment

This action is in response to the amendment mailed April 11, 2006.
 Claim 24 was amended rendering claims 24-28 and 30-31 pending with claims 32-46 withdrawn as a non-elected invention.

Claim Rejections – 35 USC § 103(a)

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 24-28 and 30-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over the Hashimoto (U.S. 5,485,685).

Hashimoto discloses a wood block, where the lignin in the wood structure is melted which firmly blocks the cellulose and hemicellulose composing the cells of the wood (column 4, lines 5-8 and lines 58-61) and the oil and fat components of wood are melted (column 6, lines 1-5). The melted lignin in the wood's cell structure ensures the coloring of the wood with a dye that can penetrate deep into the wood's interior (column 5, lines 1-7) where the melted lignin of the wood is physically altered from its original state. In instant claim 24, the phrase, "being created by exposure of at least a portion of

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the article of wood to an increased temperature which raises the wood comprising said at least a portion of the article of wood above a melting point thereof" introduces a process limitation to the product claim. Additionally, in instant claim 25, the phrase "cell walls melted in one or several cutting directions" also introduces a process limitation to the product claim. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F.2d 695, 698, 227 USPQ 964. 966. Further, process limitations are given no patentable weight in product claims. In claim 24, the phrase, "caused by short time high energy input into the wood component resulting from electromagnetic waves in the form of laser light having a duration of up to 50ms" constitutes a 'capable of' limitation and that such a recitation that an element is 'capable of' performing a function is not a positive limitation but only requires the ability to so perform. Hashimoto is silent as to the wood melts being free from pyrolitic degradation as per instant claim 24. Since no such degradation is disclosed as being present, the limitation of claim 24 is met. Although Hashimoto does not explicitly disclose the melted areas having a higher hardness and abrasion resistance than the non-melted wood as in instant claim 27 or the wood melts having a low degree of polymerization and increased plasticization compared to the original state of the wood as in instant claim 24, these claimed features are directly related to the melted wood parts. Since Hashimoto teaches the same components as Applicant, these features would be expected, absent any evidence to the contrary.

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Claim Rejections – 35 USC § 103(a)

4. Claims 24-28 and 30-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over the Hashimoto (U.S. 5,784,805).

Hashimoto discloses a wood block, where the lignin in the wood structure is melted which firmly blocks the cellulose and hemicellulose composing the cells of the wood (column 4, lines 5-9 and lines 59-61) and the oil and fat components of wood are melted (column 6, lines 1-5). The melted lignin in the wood's cell structure ensures the coloring of the wood with a dye that can penetrate deep into the wood's interior (column 5, lines 1-9) where the melted lignin of the wood is physically altered from its original state. In instant claim 24, the phrase, "being created by exposure of at least a portion of the article of wood to an increased temperature which raises the wood comprising said at least a portion of the article of wood above a melting point thereof" introduces a process limitation to the product claim. Additionally, in instant claim 25, the phrase, "cell walls melted in one or several cutting directions" introduces a process limitation to the product claim. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F.2d 695, 698, 227 USPQ 964, 966. Further, process limitations are given no patentable weight in product claims. In claim 24, the phrase, "caused by short time high energy input into the wood component resulting from electromagnetic waves in the form of laser light having a duration of up to 50ms" constitutes a 'capable of' limitation and that such a recitation that an element is 'capable of' performing a function is not a positive limitation but only requires the ability to so perform. Hashimoto is silent as to the wood melts being free from pyrolitic degradation as per instant claim 24. Since no such degradation is disclosed as being present, the limitation of claim 24 is met. Although Hashimoto does not explicitly disclose the melted areas having a higher hardness and abrasion resistance than the non-melted wood as in instant claim 27 or the wood melts having a low degree of polymerization and increased plasticization compared to the original state of the wood as in instant claim 24, these claimed features are directly related to the melted wood parts. Since Hashimoto teaches the same components as Applicant, these features would be expected, absent any evidence to the contrary.

Response to Arguments

5. Rejection made under 35 USC 112, first paragraph is withdrawn due to Applicant showing support for the claim language indicated in the rejection.

Rejection made under 35 USC 103(a) as being unpatentable over Hashimoto (U.S. 5,485,685) and Hashimoto (U.S. 5,784,805) have been considered but is unpersuasive. Applicant argues the method steps of the present Application distinguish it from the prior art. Examiner maintains the patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F.2d 695, 698, 227

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USPQ 964, 966. Further, process limitations are given no patentable weight in product claims. Applicant further argues the wood of Hashimoto patents maintain their basic structure. Examiner is not persuaded by this argument and maintains that Hashimoto discloses a wood block, where the lignin in the wood structure is melted (column 4, lines 5-8 and lines 58-61) and the oil and fat components of wood are melted (column 6, lines 1-5). Applicant further argues the wood of Hashimoto does not exhibit a low degree of polymerization and increased plasticization compared to the original state of the wood. Since Hashimoto teaches the same components as Applicant, these features would be expected, absent any evidence to the contrary.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence Ferguson whose telephone number is 571-272-1522. The examiner can normally be reached on Monday through Friday 9:00 AM – 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye, can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Lawrence Ferguson

Patent Examiner

AU 1774

SUPERVISORY PATENT EXAMINER

A.U. 1774 (236)